# A FEW NOTES ON WATERBODY DEFINITIONS

WQSAC MEETING February 9, 2004

# Statewide Waterbody Catalog

- GIS based
- Uses National Hydrography Dataset
- Catalogs all NH waterbodies
- First version used for 2002 305(b) report
  - 1:100K NHD
  - Lots of inaccuracy, no wetlands
- Second version under development
  - 1:24K NHD
  - Concise waterbody definitions

## Surface Waters Definition

From WQ standards Env-Ws 1702.46

"Surface waters of the state" in RSA 485-A:2

AND

"Waters of the US" in 40 CFR 122.2

# NH Waterbody Types

- Ocean
- Estuary
- River / Stream
- Impoundment
- Lake / Pond
- Wetland

#### Oceans

- Waters seaward of a chord drawn from headland to headland
  - Already done by EPA
  - No more definition work needed

## **Estuaries**

- Waters with tidal influence on the landward side of a chord drawn from headland to headland
  - To "head of tide"
  - Concise definition where there is a tidal dam
  - Definition needs a little thought where there is no tidal dam
    - Good literature
  - Boundary with wetlands needs work

#### Rivers

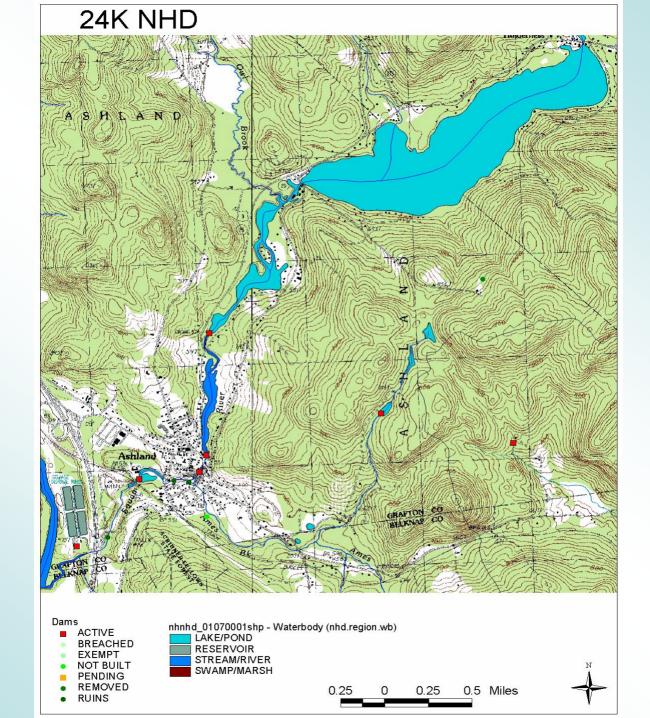
- Free-flowing, unimpounded rivers
  - Boundary with head of impoundments needs work
  - Boundary with wetlands needs work
  - Boundary with lakes needs work

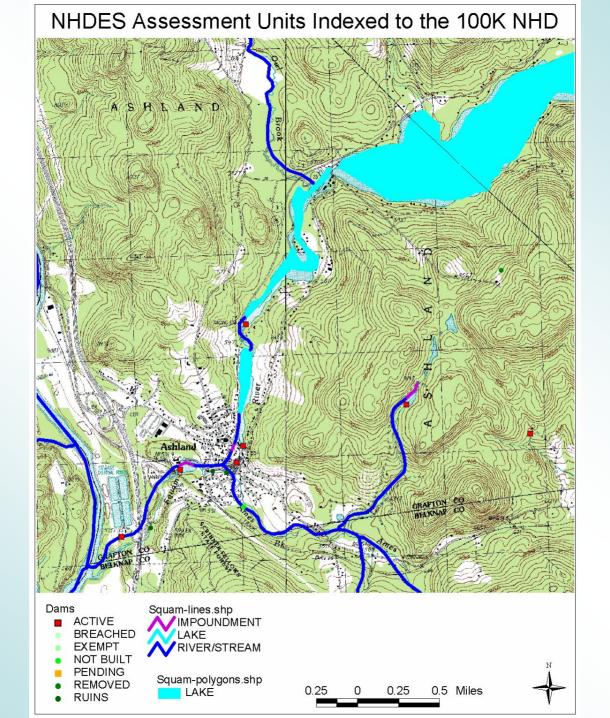
## Impoundments

- Waterbodies created by a dam on a river
  - Difference between an impoundment and a lake raised by a dam needs work
  - Boundary between head of impoundment and river needs work

## Lakes

- Lake = Pond for definition purposes
- Includes lakes raised by dams
- Difference between an impoundment and a lake raised by a dam needs work
- Boundary with upstream tribs needs work
- Boundary with wetlands needs work





Each new line color represents a new NDH Reach\_ID ACTIVE BREACHED EXEMPT NOTBUILT One stream reach, PENDING REMOVED surrounded by marsh land. RUINS Downstream portion is wide nhnhd 01070001shp - 0D enough to also have a nhnhd\_01070001shp - No: stream polygon. nhnhd\_01070001shp - Dra nhnhd\_01070001shp - 1D nhnhd\_01070001shp - 2D nhnhd\_01070001shp - DU 01070001 nhnhd\_01070001shp - Re. nhnhd\_01070001shp - Wa LAKE/POND RESERVOIR STREAM/RIVER Cawley Pond is large SW/AMP/MARSH enough (>10 acres) to have nhnhd\_01070001shp - Wa its own transport reach Drg110.tif (yellow). Catuleu Note tiny stream reach between Cawley Pond Outlet and inflow of Giles Brook from the east. Rollins Pond is <10 acres and therefore does not get its own transport reach.\*\*\*